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RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/069,495

DATE: 03/07/2002  
TIME: 15:25:09

Input Set : A:\jab-1526.txt  
Output Set: N:\CRF3\03072002\J069495.raw

5 <110> APPLICANT: Luyten, Walter  
6 Naranjo, Jose  
7 Mellstrom, Britt  
11 <120> TITLE OF INVENTION: GAS1 POLYPEPTIDES  
15 <130> FILE REFERENCE: JAB-1526  
C--> 19 <140> CURRENT APPLICATION NUMBER: US/10/069,495  
C--> 19 <141> CURRENT FILING DATE: 2002-02-20  
19 <150> PRIOR APPLICATION NUMBER: PCT/EP00/08182  
21 <151> PRIOR FILING DATE: 2000-08-21  
25 <150> PRIOR APPLICATION NUMBER: EP 99306702.4  
27 <151> PRIOR FILING DATE: 1999-08-24  
31 <160> NUMBER OF SEQ ID NOS: 10  
35 <170> SOFTWARE: PatentIn Ver. 2.0  
39 <210> SEQ ID NO: 1  
41 <211> LENGTH: 1762  
43 <212> TYPE: DNA  
45 <213> ORGANISM: Rattus norvegicus  
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53 ggcccaggcc cgggttagagg gggaggggac caagcgtcct ggtcgccgga aggccggatg 120  
55 cagagctcgac aactgctacg cgctactgag cggggAACGA ggagccaccc gcccacacgac 180  
57 cttctgcagg cgccttgcac catgcacccc cggcgccgac gtcctgcag ctttgcgcgc 240  
59 tccccccaggc acagcaactga acgcttccag cccgcgcacatcg gagctggacc tgcgtcgccg 300  
61 cgcctctcagg ggagccccgg cccgcgggtgc ggagcaaaaca cccgcctcta ccagccgcgg 360  
63 ggccgcgcgc atggatggat gaggacgcgc atgcacaaag tgcgcggaaac tcggacaaac 420  
65 ttttccagcg gccccgcgcgc cggccacccgc gcctcggttc cgctccgcac cgcgtccggc 480  
67 ggccgcgtct gcccgcgtat ctgcgcac tgcgtggccgg cggcgccgcgc cgctcgccgg 540  
69 gcttgcgggg cgccttgcctg tgccctgatgg cgctgtgc gttgctgggc tcggcgccgc 600  
71 ggggctcggg gctggcgcac gggccgcgc tcatotgctg gcaggcgcgtg ctgcagtgtc 660  
73 agggagagcc ggactgcac tacgcctaca gccagatgc cggaggcgtgt gcgcgggtgc 720  
75 tcgcacagcg cggcgaggatc gatgtcctg ggccttcgg cgccttcgg tcctcgccgc 780  
77 cgtccttcgc gccgcgtgg cgatgcccgc gcaactgcac tgcggcgctc atccagctca 840  
79 accacacgcgc cccgcggccgc ggcgtggagg actgcacactg cgcgcaggac gaacactgca 900  
81 ggtccaccaa ggcgcgcacatc gagccctgtc tgccgcgcac cagcagcgtg ggcgcggcgc 960  
83 cgggagcgccg ctcggcgtatc ggcgtgcaccc aggccttcgg cgcgtgcgcac cgggacagcc 1020  
85 gctgcaaccc ggcactcgcc cgcgtatctag cctactgcgg caagcttgc aacggcttc 1080  
87 gccgcaccgc cggatgcgcgc ggggtcatcg aggacatgtc ggcgggtgc aaggcggcgc 1140  
89 tgctcaacgc ctgtgtgtgc gatgggctgg agaggccat ctgcgcgtgc gtcaaggaga 1200  
91 acatggcccg cctgtgttc ggccttcgg cggacacgg tccgggcgc acgcgcgtcg 1260  
93 acggggccct agacgactac tacgcacgaag aatatgtga cggacgcgcgc gctggggccgc 1320  
95 cggcggccgc gcaagccctg gacgcacgc acggcctgc ggcggccgc ggcggcgcgtg 1380  
97 ctggggcagg cggacgcggg gacttgcggc acggggccggg ggcgcaggagc agcagcagcg 1440  
99 gcagtggagg ccactggccgc acccgaagct cctggacccc gtttgcctgt tttctgctgc 1500

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101 tcctgctgct tgggtccac ttgttagcccc cgcgcctcg ctgcaggcta ctccaggccg 1560  
103 gtacgcgcga cccagctgat tcccagacag ggcacactgtg gctcggagac cggagatgtat 1620  
105 caggagcact gaccacact ctccgcgggt agacagggcc cagccgtac cgcaactacc 1680  
107 atgctcgccc ctttctgtg cggtttcca ggctgcagat aaaaccggcc gatctatact 1740  
109 gccggctcta atctgcagaa tt 1762  
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115 <211> LENGTH: 383  
117 <212> TYPE: PRT  
119 <213> ORGANISM: Rattus norvegicus  
123 <400> SEQUENCE: 2  
125 Met Asp Glu Asp Ala His Ala Arg Ser Ala Arg Asn Ser Asp Lys Leu  
127 1 5 10 15  
131 Phe Gln Arg Pro Arg Gly Arg His Pro Ser Leu Val Ser Ala Pro His  
133 20 25 30  
137 Arg Val Arg Arg Pro Leu Leu Pro Ala Met Leu Ala Ala Leu Leu Gly  
139 35 40 45  
143 Gly Gly Gly Ala Arg Ser Gly Ser Leu Pro Gly Ala Leu Leu Cys Leu  
145 50 55 60  
149 Met Ala Leu Leu Gln Leu Leu Gly Ser Ala Pro Arg Gly Ser Gly Leu  
151 65 70 75 80  
155 Ala His Gly Arg Arg Leu Ile Cys Trp Gln Ala Leu Leu Gln Cys Gln  
157 85 90 95  
161 Gly Glu Pro Asp Cys Ser Tyr Ala Tyr Ser Gln Tyr Ala Glu Ala Cys  
163 100 105 110  
167 Ala Pro Val Leu Ala Gln Arg Gly Gly Ala Asp Ala Pro Gly Pro Val  
169 115 120 125  
173 Gly Ala Phe Pro Ser Ser Ala Ala Ser Phe Ser Pro Arg Trp Arg Cys  
175 130 135 140  
179 Pro Ser His Cys Ile Ser Ala Leu Ile Gln Leu Asn His Thr Arg Arg  
181 145 150 155 160  
185 Gly Pro Ala Leu Glu Asp Ser Asp Cys Ala Gln Asp Glu His Cys Arg  
187 165 170 175  
191 Ser Thr Lys Arg Ala Ile Glu Pro Cys Leu Pro Arg Thr Ser Ser Val  
193 180 185 190  
197 Gly Pro Gly Ala Gly Ala Gly Ser Val Met Gly Cys Thr Glu Ala Arg  
199 195 200 205  
203 Arg Arg Cys Asp Arg Asp Ser Arg Cys Asn Leu Ala Leu Gly Arg Tyr  
205 210 215 220  
209 Leu Ala Tyr Cys Gly Lys Leu Phe Asn Gly Leu Arg Arg Thr Asp Glu  
211 225 230 235 240  
215 Cys Arg Ala Val Ile Glu Asp Met Leu Ala Val Pro Lys Ala Ala Leu  
217 245 250 255  
221 Leu Asn Asp Cys Val Cys Asp Gly Leu Glu Arg Pro Ile Cys Glu Ser.  
223 260 265 270  
227 Val Lys Glu Asn Met Ala Arg Leu Cys Phe Gly Pro Asp Ala Ser Asn  
229 275 280 285  
233 Gly Pro Gly Ser Ser Gly Ser Asp Gly Gly Leu Asp Asp Tyr Tyr Asp  
235 290 295 300  
239 Glu Glu Tyr Asp Asp Glu Gln Arg Ala Gly Ala Gly Glu Gln

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241	305	310	315	320
245	Pro Leu Asp Asp Asp Asp Gly Leu Ala Arg Pro Gly Gly Gly Ala Ala			
247	325	330	335	
251	Gly Ala Gly Gly Arg Gly Asp Leu Pro His Gly Pro Gly Arg Arg Ser			
253	340	345	350	
257	Ser Ser Ser Gly Ser Gly Gly His Trp Ala Thr Arg Ser Ser Trp Thr			
259	355	360	365	
263	Pro Phe Ala Cys Phe Leu Leu Leu Leu Leu Gly Ser His Leu			
265	370	375	380	
271	<210> SEQ ID NO: 3			
273	<211> LENGTH: 1762			
275	<212> TYPE: DNA			
277	<213> ORGANISM: Rattus norvegicus			
281	<400> SEQUENCE: 3			
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285	cgcacagaaa agggccgagc atggtagtt cggtacggc tgggcccgtt ctacccgcgg 120			
287	agagtgtggg tcagtgcctc tgatcatctc cggtctccga gccacaggtg ccctgctcgg 180			
289	gaatcagctg ggtcgccgt accggcctgg agtagcctgc agcagggcgc cgggggctac 240			
291	aagtgggacc caagcagcag gaggcagcaga aaacaggcaa acggggtcca ggagcttcgg 300			
293	gtcgccca ggcctccact gccgctgtc ctgcctcgc gccccggccc gtggggcaag 360			
295	tccccgcgtc cgccctgcccc agcagcggcc cgcccccggc ggcgaaggcc gtgcgtcgc 420			
297	tccaggggtt gtcgcccgc cgcggcccca ggcgcgtctc cgtcatata ttcttcgtcgc 480			
299	tagtagtcgt cttagcccccc gtcgcggccg ctgcgtcccg gaccgttgcg cgcacatctggg 540			
301	ccgaagcaca ggcgggccat gttctccttgc accgactcgc agatgggcct ctccagccca 600			
303	tcgcacacac agtcgttgag cagcgcgcgc ttgggcacccg ccagcatgtc ctgcgtgacc 660			
305	gcgcggact cgtcggcgcg gcgagaccg ttggaaagct tgccgcagta ggctagatag 720			
307	cgcccgaggc ccagttgcgc gcggtctgtcc cggcgcgcg gccgcggggc ctgggtgcag 780			
309	cccatgaccg agccgcgtcc cgcgcgggg cccacgcgtc tgggtgcgcg cagacaggc 840			
311	tcgatggcgc gcttggtggc ctcgcgtgtc tgcgtcgcg cgcagtcgc gtcctccagc 900			
313	gcggggccgc ggcgcgtgtc gttgagctgg atgagcgcgc agatgcgtg gctcgggcat 960			
315	cgcccgaggc gcgagaagga cgcggccgag gaggggaaagg cgccgacggg cccaggagca 1020			
317	tcaagtcggc cgcgcgtgtc gaggcaccggc gcacacgcgtc cggcgtactg gctgtaggcg 1080			
319	tagtcgcgt cccgcgtctcc ctgcacactgc agcagcgcgtc gccagcagat gaggcggcgg 1140			
321	ccgtgcgcgc gccccgagcc cccgcggcgc gaggccagca actgcagcag cgcacatcagg 1200			
323	cacagcaagg ccccgccaa gtcctccgc cggcgtccgc cgcgcggccag cagtgcggct 1260			
325	agcatcgccg gcagcagcgg cccgcggacg cggcgtggag cggaaacgag gctcgggtgg 1320			
327	cgcccgccgg gccgcgtggaa aagtttgcgc gagttccgc cacttctggc atggcgtcc 1380			
329	tcatccatcc atgcggcggg ccccgccgtc ggtagaggcg ggtgtttgc ccagcaccgc 1440			
331	gccccgggct ccctgagagg cgcggcgcgc caggtccagc tccgatcgcc ggttggaaagc 1500			
333	gttcagtgtc gtccctgggg gacgcggcaa ggctgcagga gccgcggcgc cgggggtgca 1560			
335	tggtgcagg cgcctgcaga aggtcggtgt gcccgtggct cctcggtccc ggctcgttag 1620			
337	cgcttagcag ttgcgcgtc tgcacactgc cttccgc cccgcgttccgc ccaggacgc tggtcccctc 1680			
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347	<211> LENGTH: 131			
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351	<213> ORGANISM: Rattus norvegicus			
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357 His Cys Arg Ser Thr Lys Arg Ala Ile Glu Pro Cys Leu Pro Arg Thr  
359 1 5 10 15  
363 Ser Ser Val Gly Pro Gly Ala Gly Ala Gly Ser Val Met Gly Cys Thr  
365 20 25 30  
369 Glu Ala Arg Arg Arg Cys Asp Arg Asp Ser Arg Cys Asn Leu Ala Leu  
371 35 40 45  
375 Gly Arg Tyr Leu Ala Tyr Cys Gly Lys Leu Phe Asn Gly Leu Arg Arg  
377 50 55 60  
381 Thr Asp Glu Cys Arg Ala Val Ile Glu Asp Met Leu Ala Val Pro Lys  
383 65 70 75 80  
387 Ala Ala Leu Leu Asn Asp Cys Val Cys Asp Gly Leu Glu Arg Pro Ile  
389 85 90 95  
393 Cys Glu Ser Val Lys Glu Asn Met Ala Arg Leu Cys Phe Gly Pro Asp  
395 100 105 110  
399 Ala Ser Asn Gly Pro Gly Ser Ser Gly Ser Asp Gly Gly Leu Asp Asp  
401 115 120 125  
405 Tyr Tyr Asp  
407 130  
413 <210> SEQ ID NO: 5  
415 <211> LENGTH: 26  
416 <212> TYPE: DNA  
417 <213> ORGANISM: artificial sequence  
420 <220> FEATURE:  
421 <223> OTHER INFORMATION: 5' primer from mouse sequence  
423 <400> SEQUENCE: 5  
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428 <210> SEQ ID NO: 6  
429 <211> LENGTH: 37  
430 <212> TYPE: DNA  
431 <213> ORGANISM: Artificial sequence  
434 <220> FEATURE:  
435 <223> OTHER INFORMATION: 3' primer from rat  
438 <400> SEQUENCE: 6  
440 ggatccgggtttaatacagt ttatacgacg taccagg 37  
443 <210> SEQ ID NO: 7  
445 <211> LENGTH: 15  
447 <212> TYPE: DNA  
449 <213> ORGANISM: Artificial Sequence  
453 <220> FEATURE:  
455 <223> OTHER INFORMATION: antisense oligonucleotide  
459 <400> SEQUENCE: 7  
461 tcctcatcca tccat 15  
467 <210> SEQ ID NO: 8  
469 <211> LENGTH: 15  
471 <212> TYPE: DNA  
473 <213> ORGANISM: artificial sequence  
477 <220> FEATURE:  
479 <223> OTHER INFORMATION: oligonucleotide  
483 <400> SEQUENCE: 8

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491 <210> SEQ ID NO: 9  
493 <211> LENGTH: 15  
495 <212> TYPE: DNA  
497 <213> ORGANISM: artificial sequence  
501 <220> FEATURE:  
503 <223> OTHER INFORMATION: antisense oligonucleotide  
507 <400> SEQUENCE: 9  
509 gagctggtgt tccat 15  
515 <210> SEQ ID NO: 10  
517 <211> LENGTH: 15  
519 <212> TYPE: DNA  
521 <213> ORGANISM: artificial sequence  
525 <220> FEATURE:  
527 <223> OTHER INFORMATION: oligonucleotide  
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533 gtagttgtcc atggta 15

VERIFICATION SUMMARY  
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Input Set : A:\jab-1526.txt  
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L:19 M:270 C: Current Application Number differs, Replaced Current Application No  
L:19 M:271 C: Current Filing Date differs, Replaced Current Filing Date